

Curriculum Vieta

S Rehan Ahmad, Ph.D.

Assistant Professor,

Department of Zoology,

Hiralal Mazumdar Memorial College for Women,

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✚ Skills

- ❖ **Cellular Biology:** Cell Culture, Tissue Culture, Staining,
- ❖ **Microbiology:** preparation and purification of adenoviruses
- ❖ **Microscopy:** Confocal, Fluorescence, and Light & Compound Microscope, Phase Contract Microscope
- ❖ **Molecular Biology:** Vector design: primers design, digestions, ligations, cloning.
- ❖ **Cloning:** transformation, RNA extraction, reverse transcription, PCR, DNA purification, DNA gel analysis, quantification, and extraction.
- ❖ **Biochemistry:** Southern, Northern & Western blotting, (co-) Immunoprecipitation, pulse-chase, ELISA, enzymatic assays.
- ❖ **Analytical Methods:** Spectrophotometry, Chromatography (thin layer, ion exchange, HPLC)
- ❖ **Bioinformatics** – Molecular Docking, Molecular Dynamics, Simulation, Proteomics
- ❖ **Programming Language and Data Analysis-** R, Python, Image J, MATLAB, Biopython, Linux, BLAST, BioPerl.

Date of Joining: 07 – 11 – 2019

Qualification: Double M.Sc., B.Ed. (C.U), PGDEMA (IGNOU), PGDIPR (IGNOU), Ph.D.

International Patents

2023

1. [A Device to Predict Menopause in Females Based on the Level of Anti-Mullerian Hormone \(AMH\)](#)
Ahmad, S. R., 27 June 2023, UK Patent No. 6289482, Priority date 12 June 2023
Research output: Patent
2. [A smartwatch to monitor movement symptoms of Parkinson's patients and assess response to drug & physiotherapy treatment](#)
Ahmad, S. R., Ahmad, F., Abiha, U., Das, P., June 2023, UK Patent 6289486, Priority date 12 June 2023
Research output: Patent
3. [IoT-based Wearable Device to Track and monitor healthcare for Monitoring Alzheimer's Patients' Health](#)
Ahmad, S. R., Ahmad, F., Abiha, U., Das, P., June 2023, UK Patent 6289485, Priority date 12 June 2023
Research output: Patent
4. [IoT-based Health Monitoring and Security System for Medicinal Plants](#)
Ahmad, S. R., & Ushakiran A., 26 May 2023, UK Patent No. 6282272, Priority date 12 May 2023
Research output: Patent

National Patents

2023

1. [Device for detecting Oxidative value in Fruits and Vegetable](#)
Ahmad, S. R., and Agrawal. U., 2023. Indian Patent Application No. 381454-001, Priority date 14 March 2023; Research output: Patent

Research Paper Publications:

2023

1. **Ahmad, S. R.**, Acharya, R., (2023). Analysis of the Phytochemical composition of leaves of five superior salt-tolerant Mulberry Germplasm grown under coastal saline soils of South 24 Parganas district of West Bengal, India ([Accepted in Nature Environment and Pollution Technology](#))
2. Saduzzaman, M., Mini, K., Shardendu, S., **Ahmad, S. R.**, (2023). Studying the remediation capability of *Bacillus licheniformis* DAS 1 for Cr (VI) toxicity using a Multifactor Experimental Approach” for publication in the journal Nature Environment and Pollution Technology ([Accepted in Nature Environment and Pollution Technology](#))
3. **Ahmad, S. R.** (2023). Role of Medicinal Plants in Managing Neuroprotective Diseases. *Accepted*). *Ind J. Pure App. Biosci.* 11(3)
4. **Ahmad, S. R.** (2023). Bioactive Metabolites & Medicinal Plants: A Promising Approaches for Managing Alzheimer’s Diseases (AD). *Wjjps*, 8(6).
5. **Ahmad, S. R.** (2023). Continent-wise Neuroprotective Medicinal Plants for Managing Parkinson's Disease: A Systematic Review. *Ind J. Pure App. Biosci.* 11(3)
6. **Ahmad, S.R.**, Prasad, K.D.V., Bhakuni, S., Hedau, A., Narayan, P.B.S., Parameswari, P. (2023). The Role and Relation of Emotional Intelligence with Work-Life Balance for Working Women in Job Stress. *The Scientific Temper*, 14(1):1-3. https://doi.org/10.58414/SCIOle_of_medicinal_plantsENTIFICTEMPER.2023.14.1.30
7. **Ahmad, S. R.**,(2023). Yadav Rupali, Hosur Ravi, Vidhiya R., Nagaral Mahesh U., Kulkarni Girish, and Das Puja: The implication of Artificial Intelligence (AI) in animal husbandry. *Intern. J. Zool. Invest.* 9(1): 436-438, 2023. <http://ijzi.net/Issue/2241532355IssueMS48.pdf>
8. **Ahmad, S. R** (2023). The Use of Genomics and Bioinformatics to Hasten Agricultural Improvement in Response to Climate Change, *Emrg. Trnd. Clim. Chng.* 2(1), 1-6. doi: <http://dx.doi.org/10.18782/2583-4770.118>
9. **Ahmad, S. R.**, (2023) . Food Vaccines and their Application in the Treatment of Cancer and COVID-19, *Emrg. Trnd. Nutr.* 2(1), 1-9. doi: <http://dx.doi.org/10.18782/2583-4606.120>

2022

1. **Ahmad, S. R.**, Ghosh P. (2022). A systematic Investigation on Flavonoids, Catechin, β -sitosterol, and Lignin Glycosides from *Saraca asoca* (Ashoka) having Anti-cancer & Antioxidant properties with no side effects. *Journal of the Indian Chemical*, 99 (1),pp-1-10 <https://doi.org/10.1016/j.jics.2021.100293>
2. **Ahmad, S. R.**, Karmakar, S., Roy Anindita (2022). Thymoquinone: A Promising Natural Compound with Preventive & Curative Properties against Covid-19, *International Journal of Zoological Investigation*; 8(2), 461-485 <https://doi.org/10.33745/ijzi.2022.v08i02.051>
3. **Ahmad, S. R.**, Dutta S., (2022). A systematic investigation of Trigonelline, Diosgenin, Protodioscin, and Dioscin from *Trigonella foenum-graecum* (fenugreek seeds) having anti-cancer and antioxidant properties without side effects, *International Journal of Zoological Investigation*; 8(2), 404-418 <https://doi.org/10.33745/ijzi.2022.v08i02.050>
4. **Ahmad, S. R.**, Alam S, I, Karmakar, S., (2022). A systematic review on multi-nutritional and phytopharmacological importance of *Perilla frutescens*. *International Journal of Green Pharmacy*,16(1). <https://doi.org/10.22377/ijgp.v16i1.3215>
5. **Ahmad, S. R.** (2022). The Study of Emotional Intelligence in Artificial Intelligence, *Int. J. Phar. & Biomed. Res.* 9(6), 1-3. doi: <http://dx.doi.org/10.18782/2394-3726.1129>
6. **Ahmad, S R** (2022). Teachers' Role in Developing Emotional Intelligence among the Children, *Int. J. Phar. & Biomed. Res.* 9(6), 4-7. doi: <http://dx.doi.org/10.18782/2394-3726.1130>
7. **Ahmad, S. R.** (2022). Impact Assessment of COVID-19 on Indian Agriculture, *Curr. Res. Agri. Far.* 3(5), 17-22. doi: <http://dx.doi.org/10.18782/2582-7146.176>

8. **Ahmad, S. R.** (2022). Impact of Integration of Inclusive Education and Information and Communication Technology on the learning process of a Child with Down Syndrome, *Ind. J. Pure App. Biosci.* 10(5), 28-34. doi: <http://dx.doi.org/10.18782/2582-2845.8946>
9. **Ahmad, S. R., Masuldar, A.** (2022). Screening of Phytoconstituents from *Curcuma longa*, *Piper nigrum* & *Murraya koenigii*, Methanolic extracts, and in-vitro efficacy of their combinations on Nematode Parasite (*Ascaridia galli*) of *Gallus gallus domesticus*. *Intern. J. Zool. Invest.* Vol. 8, No. 1, 744-749 <https://doi.org/10.33745/ijzi.2022.v08i01.081>
10. **Ahmad, S. R.** (2022). Bio-floc Technology (BFT): A Natural Tool of Bioremediation to Clean the Lentic Water Environment and Cost-Effective Novel Technology for the Fish Industry, *Emrg. Trnd. Clim. Chng.* 1(2), 23-27. DOI: <http://dx.doi.org/10.18782/2583-4770.109>
11. **Ahmad, S. R.** (2022). Artificial Intelligence: Use in Clinical and Genomic Diagnostics, *Emrg. Trnd. Nutr.* 1(2), 42-50. doi: <http://dx.doi.org/10.18782/2583-4606.111>

2021

1. **Ahmad, S.R., Ghosh P.** (2021). A Systematic Review on Mucormycosis in Corona Patients and its Treatment in India. *J Commun Dis.* 2021;53(3):236-243. <http://medical.advancedresearchpublications.com/index.php/Journal-Communicable-Diseases/article/view/642>
2. **Ahmad S. R., Kalam A, and Ghosh P.** (2021). Bioactive metabolites (alkaloids, flavonoids, saponin, steroids, phenols, and tannins) extracted from stem and roots of *Chlorophytum borivilianum* and their antibacterial activity. *Intern. J. Zool. Invest.* 7 (2): 507-511, 2021. <https://doi.org/10.33745/ijzi.2021.v07i02.027>
3. **Ahmad, R.S.** (2021). A Study of Osteoporosis due to lack of Vitamin - D deficiency through a small Survey in Kolkata, (West Bengal), *Ind. J. Pure App. Biosci.* 9(4), 101-110. DOI: <http://dx.doi.org/10.18782/2582-2845.8764>
4. **Ahmad S.R., Kalam A, Ghosh P.** (2021) Biocontrol Effect of Lytic Bacteriophages Against Various Foodborne Diseases. *Biomedical Pharmacol J*; 14(2) DOI: <https://dx.doi.org/10.13005/bpj/2174>
5. **Ahmad S.R.,** (2021) Medicinal Plants Products and Phytochemical Extract as Potential Therapies for Coronavirus: Future Perspective. *Biomedical Pharmacol J*; 14(2) <https://dx.doi.org/10.13005/bpj/2181>
6. **Kalam A, Ahmad, S. R.,** (2021). Analysis on the Antifungal Activity of Bacteria Isolated from Rotten Fruits and Vegetables Along with their Partial Morphological and Biochemical Characterization. *Biosc. Biotech. Res. Comm.* ; Vol 14 No (1) pp -308 -3015 DOI: <http://dx.doi.org/10.21786/bbrc/14.1/44>
7. **Ahmad, S. R.,** (2021). Conventional Medicinal plants as Natural Food preservatives for Food Preservation in Food Industry. *Indian J. Applied & Pure Bio.* 36(2), 337-348 <http://biology-journal.org/journal/volume36/issue72/ijapb36-2-12.html>
8. **Ahmad, S. R., and Bhunia A. S** (2021) . Potentials, threats, and challenges of ornamental fish biodiversity of East Kolkata Wetland (EKW), West Bengal, India. *Intern. J. Zool. Invest.* 7 (2): 428-432, 2021. <https://doi.org/10.33745/ijzi.2021.v07i02.015>
9. **Ahmad, S. R.** (2021). Information and Communication Technology: The most effective tool in teaching – learning science in the New Normal Era of COVID–19. *Int. J. Phar. & Biomed. Res.*; 8(4) ,pp-11-14; <http://ijpbr.net/form/2021%20Volume%208,%20issue%204/IJPBR-2021-8-4-11-14.pdf>
10. **Ahmad, S. R., and Ghosh, P.** (2021). Havoc Created by Double Mutant Strain of Coronavirus Leading to Apocalypse Situation in India: A Systematic Review of Literature, *International Journal of Research and Analytical Reviews*, 8(3), pp. 1–7. <http://doi.org/10.1729/Journal.27794>
11. **Ahmad, S. R.** (2021). Knowledge, Attitude and Practices and Analysis of Pregnant Women towards their Nutritional Status, *Int. J. Pharm. & Biomed. Res.* 8(4), 22-38. <http://ijpbr.net/form/2021%20Volume%208,%20issue%204/IJPBR-2021-8-4-22-38.pdf>

12. **Ahmad, S. R.**, and Das, S. (2021) : A Comprehensive Study On Dengue Fever in West Bengal, India, 2020, *International Journal of Research and Analytical Reviews*, 8(3), pp. 786–806. <http://doi.one/10.1729/Journal.27840>
13. **Ahmad, S.R.** (2021). COVID-19 Lockdown: Lifestyle Changes and Health Awareness in Urban and Semi-Urban Area of West Bengal, *International Journal of Research and Analytical Review*, 8(3), pp. 807-823 <http://doi.one/10.1729/Journal.27841>
14. **Ahmad, S. R.** (2021). Information and Communication Technologies: The most effective tool in teaching-learning science in the New Normal Era of COVID 19, *Int. J. Pharm. & Biomed. Res.* 8(4), 11-14. DOI: <http://dx.doi.org/10.18782/2394-3726.1117>
15. **Ahmad, S.R.** (2021). Poultry Farming Procedure and Minimization of Poultry Waste through Urban Agriculture: A Case Study of Dey Poultry Farm, *Ind. J. Pure App. Biosci.* 9(4), 61-76. DOI: <http://dx.doi.org/10.18782/2582-2845.8762>
16. **Ahmad, S. R.**, and Das, B. (2021) Poultry Farming Procedure and Minimization of Poultry Waste Through Urban Agriculture: A Case Study of Shyamnagar Poultry Farm. *Int J Recent Sci Res.* 12(07), pp. 42573-42580. DOI: <http://dx.doi.org/10.24327/ijrsr.2021.1207.6119>
17. **Ahmad, S. R.** (2021). COVID-19: An Investigation on Potential Faunal Link, *International Journal of Research and Analytical Reviews*, 8(2), pp. 628-641. <http://doi.one/10.1729/Journal.27881>
18. **Ahmad, S. R.** (2021). Current Scenario of SARS –CoV2 in the World, *International Journal of Research and Analytical Reviews*, 8(2), pp. 642-653. <http://doi.one/10.1729/Journal.27880>
19. Shamsi, I. A., & **Ahmad, S.R.** (2021). Understanding Hoax News during the Covid-19 Health Crisis from the Perspective of Information Behavior: The Case of India, *Ind. J. Pure App. Biosci.* 9(1), 204-209. DOI: <http://dx.doi.org/10.18782/2582-2845.8581>
20. **Ahmad, S.R.**, & Chakraborty, P. (2021). The Impact of Urbanization on Various Components of the Environment, *Int. J. Rec. Biotech.* 9(2), 6-21. <http://ijrbp.net/form/2021%20Volume%209,%20issue%202/IJRB-2021-9-2-6-21.pdf>
21. **Ahmad, S.R.**, & Biswas, I. (2021). A Systematic review on Influence of Temperature on Fecundity, Incubation Period and Fertility of Multivoltine Mulberry Silkworm (*Bombyx mori* Linn.) eggs. *International Journal of Entomology Research*;6(4), pp.172-174 <http://www.entomologyjournals.com/search?keyword=rehan>
22. **Ahmad, R.S.** (2021). Herbal Medicine for the Treatment of Coronavirus Disease 2019 (COVID-19): A Systematic Review, *Ind. J. Pure App. Biosci.* 9(4), 50-53. DOI: <http://dx.doi.org/10.18782/25822845.8757>

2020

1. **Ahmad, S. R.**, & Ghosh, P. (2020). Benefits of dietary sesame seed and flaxseed to strengthen the immune system during the COVID-19 pandemic and prevent associated comorbidities-related health risks. *Ann. Phytomed.*, 9(2);1-1 <https://search.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1063572?lang=en>
2. Kalam, A., & **Ahmad, S. R.** (2020). Antifungal Activity of Bacteria Isolated from Sauerkraut and its Partial Characterization, *Ind. J. Pure App. Biosci.* 8(6), 137-145. DOI: <http://dx.doi.org/10.18782/2582-2845.8439>
3. **Ahmad, S. R.** (2020). Green Vegetables and Physical Exercise: Importance during (COVID-19) Pandemic to Boost Immunity, *Ind. J. Pure App. Biosci.* 8(4), 727-739 doi.org/10.18782/2582-2845.8402
4. **Ahmad, S.R.**, & Hasan, N. (2020). Fish Diversity and Conservation Perspectives in Wetland of Koshi River, in Araria District (North Bihar), India. <https://mbimph.com/index.php/UPJOZ/article/view/1729>
5. **Ahmad, S. R.**, (2020). Possible Zoonotic links for Coronavirus Diseases – 19: An Update Review. *Biosci. Biotech. Res. Comm.*; 13(4) DOI: <http://dx.doi.org/10.21786/bbrc/13.4/7>
6. **Ahmad, S.R.**, & Tamang, M. (2020). Study of Indigenous Medicinal Plants of Northeast States of India as Potential Therapies for Malaria. *Biosciences, Biotechnology Research Asia*,

17(3) <http://dx.doi.org/10.13005/bbra/2860>

7. **Ahmad, S.R.**, (2020). Vermiculture Technology in India: Its Scope, challenges, and Opportunities. Intern. J. Zool. Invest. 7 (2): 462-470, <https://doi.org/10.33745/ijzi.2021.v07i02.021>
8. **Ahmad, S.R.**, & Ghosh, P.(2020). Probiotic Potential of Lactic acid to Improve Immunity during COVID -19 Pandemic. *Indian Journal of Pure and Applied Biosciences*. 8(5), 66-72; DOI: <http://dx.doi.org/10.18782/2582-2845.8346>
9. **Ahmad, S.R.**, & Hasan, N. (2020). Study of Insect Fauna in Tea Garden Ecosystem of North Bengal, West Bengal, India. *Advances in BioResearch*, 11(6), 25-46 http://soeagra.com/abr/abr_nov2020/8.pdf
10. **Ahmad, S.R.**, & Ghosh, P., (2020). Application of Nanotechnology in the Food Industry and Its Potential Toxicity-Related Health Issues. *Indian Journal of Pure and Applied Biosciences* .8(4),678-689; DOI: <http://dx.doi.org/10.18782/2582-2845.8336>
11. **Ahmad, S.R.**, & Hasan, N. (2020). Fish Diversity and Conservation Perspectives in Wetland of Koshi River, in Araria District (North Bihar), India. <https://mbimph.com/index.php/UPJOZ/article/view/1729>

2017

1. Tamang, M., Pal, K., Rai, S., K., Kalam, A., **Ahmad, S. R.** (2017). Ethnobotany Survey of threatened medicinal plants of West Sikkim. *International Journal of Botany Studies*. 2(6), 116-125. <http://www.botanyjournals.com/archives/2017/vol2/issue6/2-6-38>
2. **Ahmad, S. R.**, & Kalam, A. (2017). Study of Diversity in East Kolkata Wetland Including Gosaba Island with Special Reference to Fungi. *Biosciences, Biotechnology Research Asia*, 14(2), 805-816. <http://dx.doi.org/10.13005/bbra/2512>

Chapters in Books Published: 01

1. **Edited Book: Effective Scientific and Technological Approach in Combating COVID-19 across the World.** (ISBN No. 978-93-90873-42-5) Avenel Press, Kolkata, West Bengal, India https://www.amazon.in/Effective-Scientific-Technological-Approach-Combating/dp/B0986N16BL/ref=sr_1_1?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-1

Research Publication Books: 05

2. **Introduction to Pharmacology** (ISBN No. 978-93-85908-67-5) Good Writers (International Publication), Mumbai, Maharashtra, India https://www.amazon.in/Introduction-Pharmacology-Ramdas-Kamble-Nalini/dp/B0BSR6433K/ref=sr_1_1?crid=1VBFA3MIKAPXV&keywords=rehan+ahmad&qid=1681970457&sprefix=rehan+ahmad%2Caps%2C697&sr=8-1
3. **Aquarium Fish Keeping** (ISBN No. 978-93-88963-94-7) AABS Publication House (International Publication), Kolkata, West Bengal, India <https://www.amazon.in/Aquarium-fish-keeping-Rehan-Ahmad/dp/B08QVSDZ74>
4. **Animal Diversity** (ISBN No. 978-93-88963-95-4) AABS Publication House (International Publication), Kolkata, West Bengal, India https://www.amazon.in/Animal-Diversity-Dr-Rehan-Ahmad/dp/B08QZ557R4/ref=sr_1_4?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-4
5. **Insect Vector & Disease** (ISBN No.978-93-85908-34-7) Purushottam Publisher (International Publication), Kolkata, West Bengal, India https://www.amazon.in/Insect-Vectors-Diseases-Rehan-Ahmad/dp/B08QZ557R4/ref=sr_1_4?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-4

[Ahmad/dp/B08WJB1JC8/ref=sr_1_5?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-5](https://www.amazon.in/Skill-Enhancement-Course-Vermicompost-Production/dp/B08WJB1JC8/ref=sr_1_5?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-5)

6. **Vermicompost Production** (ISBN No. **978-93-90390-97-7**) NITYA Publication (National Publication), Bhopal, India https://www.amazon.in/Skill-Enhancement-Course-Vermicompost-Production/dp/B08M985267/ref=sr_1_3?dchild=1&keywords=rehan+ahmad&qid=1634048166&s=books&sr=1-3

International Paper Presentation: 02

1. S. Hanumanthakari, S. K. Pallela, S. N. Bhukya, K. Vijayalakshmi, **S. R. Ahmad** and N. Kumar, "IoT based Patients Monitoring System in Healthcare Service," *2022 International Conference on Automation, Computing and Renewable Systems (ICACRS)*, Pudukkottai, India, 2022, pp. 1324-1329, <https://ieeexplore.ieee.org/abstract/document/10029295>
2. A. V. Agrawal, T. S. Kumari, M. Soniya, S. Meenakshi, R. Jegadeesan and **Ahmad, S. R.**, "A Comprehensive Analysis on Co-Saliency Detection on Learning Approaches," *2023 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)*, Uttar Pradesh, India, 2023, pp. 1-6. <https://ieeexplore.ieee.org/document/10118121/authors>

Major Research Project: Nil

Minor Research Project: 01

Patent: 10

Abstract:

- **Ahmad S R.** Biofloc Technology (BFT): A natural tool of Bioremediation to clean the lentic water environment and cost-effective novel technology for the Fish Industry. International Symposium on Environment and Climate Crises St. Xavier's College (Autonomous), Kolkata 20th December 2019. p 11.
- **Ahmad S R.** Impact of Integration of Inclusive Education and Information and Communication Technology on Learning process of a Child with Down Syndrome. Two Days International Conference on Down Syndrome Research - Indian Initiative in Global Perspective, University of Calcutta; Trisomy 21 Research Society, Netherlands; The Zoological Society, Kolkata. 11th -12th February 2020. p 38.
- **Ahmad S R,** Paul U.S, Hasan Md Nurul. Artificial Intelligence: Use in Clinical and Genomic diagnostics National Seminar on Diversity in the Era of Globalization. Department of Higher Education, Govt. of West Bengal & Department of Science & Technology and Biotechnology, Govt. of West Bengal. 22nd -23rd February, 2020. p 74
- **Ahmad S R.** The impact of Novel Coronavirus on education and the well-being of students, parents, and teachers: Challenges related to Blended & Flipped learning and opportunities to provide a better quality of Education. International Webinar on Effective Scientific and Technological Approach in Combating COVID -19 across the World, conducted by Hiralal Mazumdar Memorial College for Women, Kolkata on 25th -27th June 2020

FIP/OP/RC/ FDP Courses

- **Orientation Programme** attended, conducted by HRDC -UGC, Mizoram University for 21 days from 28th July 2020 to 17th August 2020 and awarded with Grade - A
- **Refresher Course** attended, conducted by HRDC- UGC, Goa University for 14 days from 11th January '2022 to 24th January '2022 and awarded with Grade - A
- **Faculty Development Programme (FDP)**, conducted by NSOU, Kolkata, West Bengal for 14 days from 19th May 2021 to 2nd June 2021

- **Faculty Development Programme (FDP)**, conducted by WBSU, Kolkata, in collaboration with Indian Academic Research Association, Tamil Nadu, for 07 days from 15th June to 21th June, 2022.
- **Professional Development Programme PEP /FDP**, conducted by IGNOU, New Delhi, India on National Education Policy -2020 for 09 days from 9th to 17th September, 2022
- **Faculty Development Programme (FDP)**, conduct by Seven Government Aided College of West Bengal in collaboration of West Bengal State Council of Higher Education on Preparation for the Revised Accreditation framework, 2022 for 07 days from 19th to 26th September, 2022

Course, Meeting, Seminars, and Workshops

- Attended one **National Seminar** on Environmental Pollution and Conservation of Natural Resources on 20 March 2014 sponsored by Mega Research and Consultancy Pvt. Ltd & presented the paper on “In vitro Antioxidant Properties of *Chlorophytum boriviliunum* (Satapau & Fernandez)”.
- Attended one **National Seminar** on Bacterial Pathogens and Food Safety on 10th January 2015 sponsored by Mega Research and Consultancy Pvt. Ltd & presented a paper on “Phytochemical Analysis and Antimicrobial Activity of *Chlorophytum boriviliunum* against bacterial pathogens causing disease in human”.
- Attended One day **International Symposium** on Environment & Climate Crises organized by St. Xavier College Kolkata in collaboration with The Blue and The Biome on 20th December 2019, presented a poster on” A natural tool of Bioremediation to clean the lentic water environment and cost-effective nova Technology for Fish Industry”.
- Attended Two Day **International Conference** on Down Syndrome Research – Indian Initiative in Global Perspective sponsored by in collaboration with Zoological Society, Kolkata, University of Calcutta and t21 Research Society, presented a paper on “Impact of Integration of Inclusive Education and Information and Communication Technology on the learning process of a child with Down Syndrome “.
- Attended Two Days **National Seminar** on Diversity in the Era of Globalization Challenges and Management sponsored by Dept. of Higher Education, Govt. of West Bengal and Dept. of Science and Technology and Biotechnology, Govt. of West Bengal on 22nd and 23rd February 2020, presented poster on “Artificial Intelligence: Use in Clinical and Genomics Diagnostics “.
- Attended Three Days **International Webinar** on Effective Scientific and Technological Approach in Combating COVID -19 across the World, conducted by Hiralal Mazumdar Memorial College for Women, Kolkata on 25th -27th June 2020.

Administrative Experience

- Serving Coordinator / Centre Superintendent of IGNOU Study Centre (2800E) since April 2021
- Serving as Joint - Convenor of the Research & Development Cell since July ‘2022 at H M M College Kolkata.
- Serving as Convenor of Distance Learning committee since July ‘2020 at H M M College, Kolkata
- Serving as Coordinator of Unnat Bharat Abhiyan at H M M College, Kolkata
- Serving as a member of the Seminar sub-committee at H M M College, Kolkata.
- Serving as a member of the Journal sub-committee at H M M College, Kolkata

Reviewer

- Reviewer of Elsevier journal (Heliyon), Reviewed 12 Manuscript since March ‘2021
- Reviewer of Springer journal (Bulletin of National Research Centre), Reviewed 10 Manuscript since July ‘2021

- Reviewer of Springer journal (Neotropical Entomology), Reviewed 05 Manuscript since Sep. '2021.
- Reviewer of International Journal of Entomology Research (UGC Care list Journals).
- Member in Editorial Board in Indian Journal of Pure and Applied Biosciences (Clarivate).
- Member in Editorial Board in Current Research in Agriculture and Farming.
- Member in Editorial Board in Emerging Trends in Climate Change.
- Member in Editorial Board in Emerging Trends in Nutraceuticals.
- Member in Editorial Board in International Journal of Pharmacy & Biomedical Research.
- Member in Editorial Board in International Journal of Recent Biotechnology